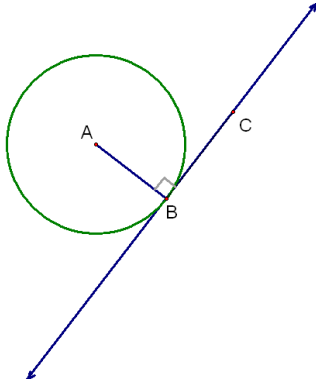


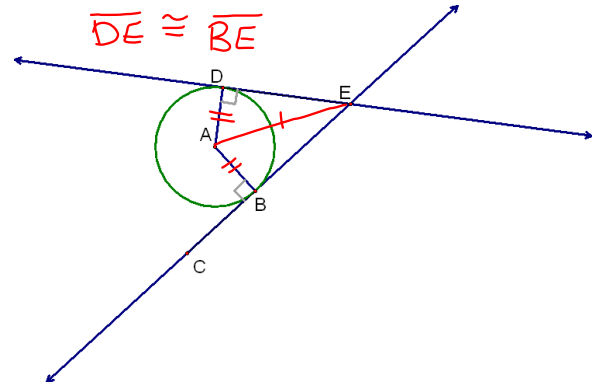
10-5 Tangents

Theorem 10-9--Radius is perpendicular to the tangent at the point of tangency

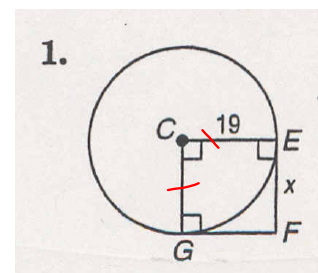
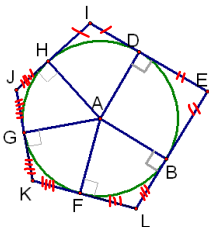
Theorem 10-10--(Converse)



Theorem 10-11--Tangents from the same point are congruent.



When a circle is inscribed in a polygon, all of the segments of the polygon are tangent to the circle.



$$x = 19$$

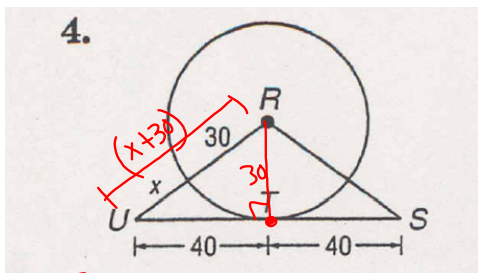
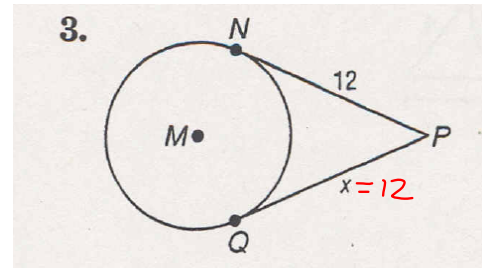
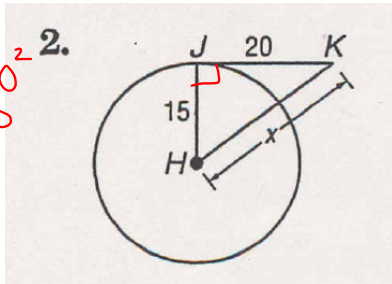
2.

$$x^2 = 15^2 + 20^2$$

$$225 + 400$$

$$x^2 = 625$$

$$x = 25$$



~~$(x+30)^2$~~

$$UR^2 = 30^2 + 40^2$$

$$UR = 50$$

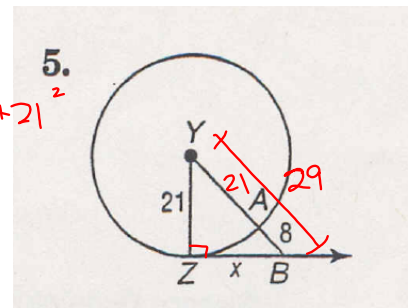
$$x + 30 = 50$$

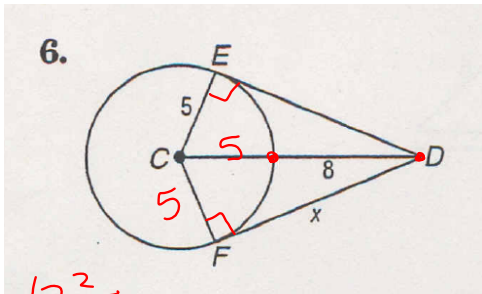
$$x = 20$$

5.

$$29^2 = x^2 + 21^2$$

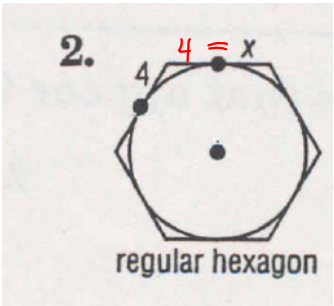
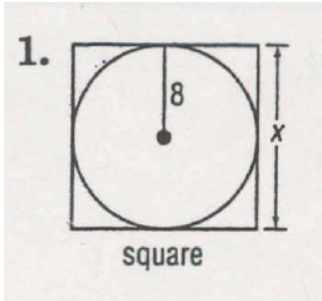
$$20 = x$$



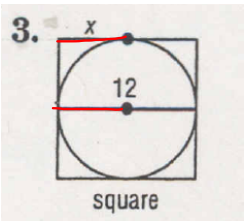


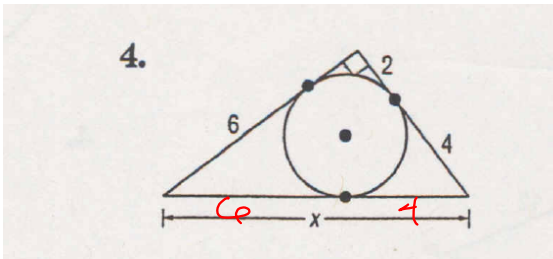
$13^2 = x^2 + 5^2$
 $12 = x$

$x = 16$

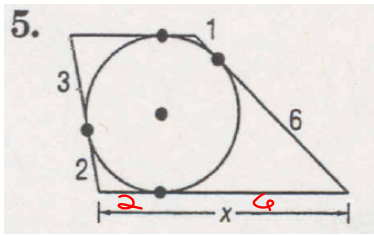


$x = 6$

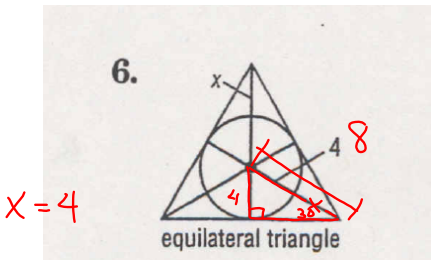




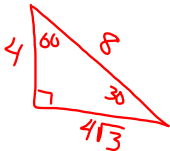
$x = 10$



8



$x = 4$



HW
p556
8-19